

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
ME - SEMESTER- 2 • EXAMINATION – WINTER - 2023

Subject Code:4725901

Date: 05 Jan 2024

Subject Name:Digital Forensics and Investigations

Time:10:30 AM TO 01:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1 (a) Define the scope and readiness of digital forensics to handle the crime. **07**

(b) What do you mean by digital evidence? Mention any five sources for digital evidence in detail. **07**

Q.2 (a) Explain the different types of storage system with its file system to storage the digital evidence. **07**

(b) Differentiate disk copying and disk imaging by taking any case study. **07**

OR

(b) Explain the different methods and techniques used for the data acquisition. **07**

Q.3 (a) Taking any latest case of ransomware attack, discuss the steps to be used in the network forensics to track the criminal. **07**

(b) Mention the different types of website attacks with its investigation process. **07**

OR

Q.3 (a) Explain the different types of crimes done by using email and the process to handle the email related crimes. **07**

(b) Define Anti-Forensics with its techniques. **07**

Q.4 (a) Write a short note on Belkasoft digital forensic tool. **07**

(b) Discuss the different methods and techniques used for data acquisition in the mobile forensics. **07**

OR

Q.4 (a) Write a short note on UFED mobile forensics tool. **07**

(b) Explain hashing techniques with its use to handle the issue of tampering of the digital evidence. **07**

Q.5 (a) Apply the different methods and techniques used for the wireless penetration testing. **07**

(b) Evaluate the important highlights of the Digital Personal Data Protection Act, 2023. **07**

OR

Q.5 (a) Write a short note on IT act 2000. **07**

(b) Discuss the challenges to investigate cloud related crimes. **07**
